

Product Discontinuation Notices

Issue Date December 2, 2013

No. 2013042CE

Vision Sensors / Machine Vision Systems

Discontinuation Notice of Vision Sensor model FZ4-(H)7[][]-[][] series.

Product Discontinuation

Vision Sensor

(X)

Model FZ4-(H)75[] Model FZ4-(H)75[]-10 Model FZ4-(H)70[] Model FZ4-(H)70[]-10



Recommended Replacement

Vision Sensor

Model FH-1050 Model FH-1050-10 Model FZ5-60[] Model FZ5-60[]-10

[Discontinuation date]

The end of March, 2015

[Caution on recommended replacement]

The camera, camera cable, lens and illumination etc. can be used, when FZ4 series are changed to FH series. However please the parallel I/O cable can not be used in FH series. Therefore please prepare it.

And please use the DVI-I -RGB Conversion Connector Model FH-VMRGB (For FH Series only), when connecting FH series to RGB analog monitor.

Please confirm the measuring time etc. before changing in advance, because these series have the different CPU.

About the use of the remodeling software

It is necessary to verify the operation if the remodeling software before FH series are used.

Please inquire of the trading company dealing our products including the version up to the remodeling software.

[Difference from discontinued product]

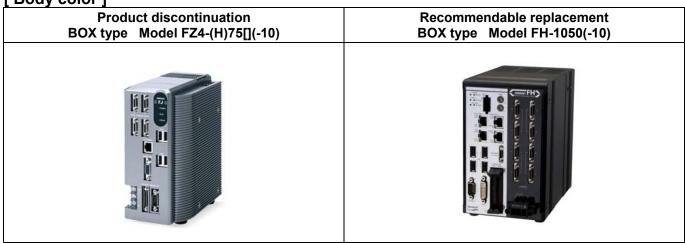
<u> </u>		0. 0.0.0.					
Recommended replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
FH-1050	*	*	*	*	*	*	*
FH-1050-10	*	*	*	*	*	*	*
FZ5-60[]	**	**	**	**	**	**	**
FZ5-60[]-10	**	**	**	**	**	**	**

- ** : Compatible
- * : The change is a little/Almost compatible
- -- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FZ4-750	
FZ4-755	FH-1050
FZ4-H750	F11-1030
FZ4-H755	
FZ4-750-10	
FZ4-755-10	FH-1050-10
FZ4-H750-10	111-1030-10
FZ4-H755-10	
FZ4-700	FZ5-600
FZ4-H700	1 23-000
FZ4-705	FZ5-605
FZ4-H705	1 25-003
FZ4-700-10	FZ5-600-10
FZ4-H700-10	1 20-000-10
FZ4-705-10	FZ5-605-10
FZ4-H705-10	1 20-000-10

[Body color]



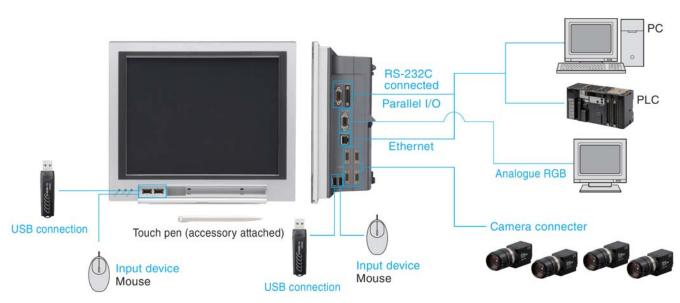
Product discontinuation Controllers integrated with LCD Model FZ4-(H)70[](-10) Recommendable replacement Controllers integrated with LCD Model FZ5-60[](-10)



System configuration] **Product discontinuation** BOX type Model FZ4-(H)75[](-10) Input device Camera connected -Mouse **USB** connection PC Ethernet Analogue RGB RS-232C connected Parallel I/O RGB monitor Recommendable replacement BOX type Model FH-1050(-10) EtherCAT connections for FH series Example of the FH Sensor Controllers (4-camera type) Sysmac Studio Standard Edition Machine Automation Vision Edition Controller NJ series EtherCAT junction slaves Lighting Controllers External Lightings EtherCAT Cables *1 Vision System FH Sensor Controllers Cameras special cable for cameras Ethernet Cables *2 Incremental rotary encoder special cable special cable for LCD Monitor and DVI-I -RGB Conversion Connector Another slave (With built-in EtherCAT slave function) EtherCAT Cables *1 special cable for I/O LCD Monitor Ô Trigger input PLC for I/O control Lighting Controllers sensor

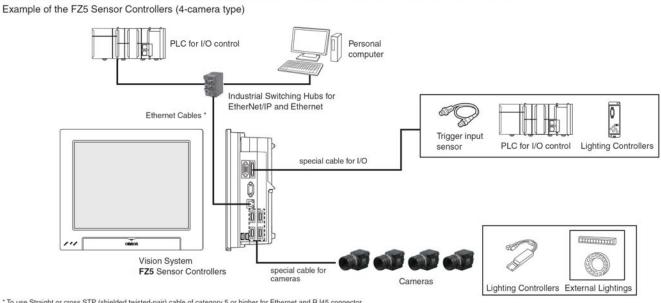
*1. To use STP (shielded twisted-pair) cable of category 5 or higher with double shielding (braiding and aluminum foil tape) for EtherCAT and RJ45 connector.
*2. To use STP (shielded twisted-pair) cable of category 5 or higher for Ethernet and RJ45 connector.

Product discontinuation Controllers integrated with LCD Model FZ4-(H)70[](-10)

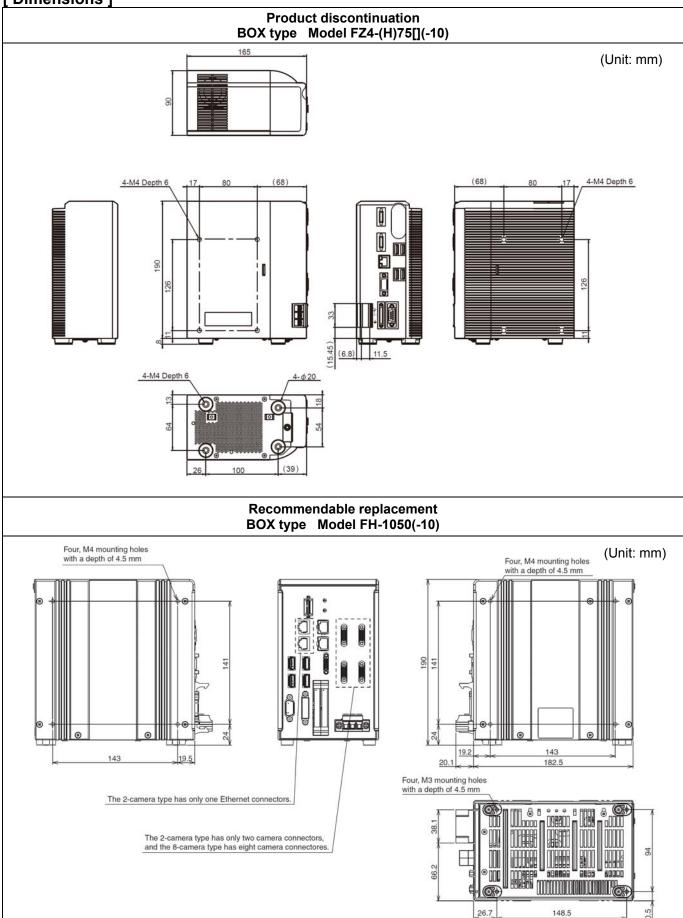


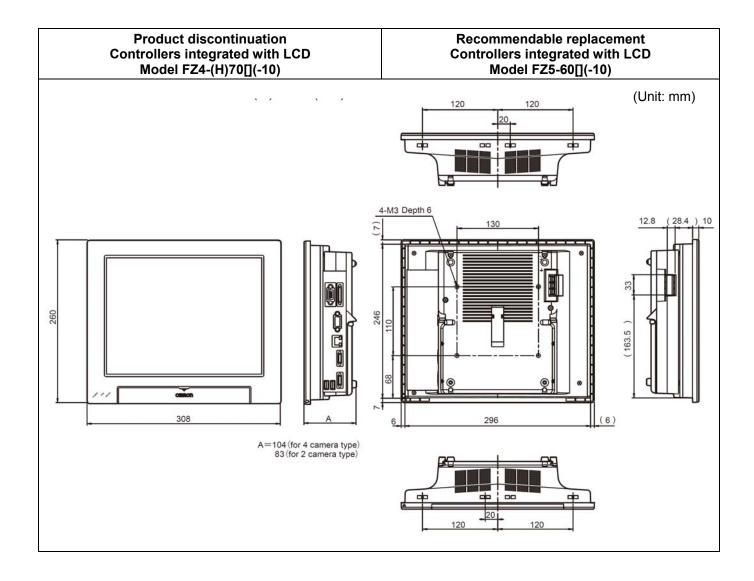
Recommendable replacement Controllers integrated with LCD Model FZ5-60[](-10)

EtherNet/IP, No-protocol Ethernet and PLC Link Connections for FZ5 series



[Dimensions]





[Specifications] Box type

Item		Product discontinuation				Recommendable replacement	
Model	NPN Output	FZ4-750	FZ4-750-10	FZ4-H750	FZ4-H750-10	FH-1050	FH-1050-10
Wodei	PNP Output	FZ4-755	FZ4-755-10	FZ4-H755	FZ4-H755-10	111-1030	111-1030-10
Control	ler type	Box-type co	ontrollers				
High-graitems	ade Processing	No	No	Yes	Yes	No	No
No. of C	ameras	2	4	2	4	2	4
Connec	ted Camera	Can be connected to all cameras. (When connecting 5 million-pixel cameras, up to two cameras can be connected.)			Can be connected to all cameras. (FZ-S series/FH-S series)		
No. of s	cenes	32			128		
Operation	on	Mouse or similar device					
Settings	3	Create serie	es of processin	g steps by edit	ting the flowchar	t (Help messa	ges provided).

Controllers integrated with LCD

	Item	Product discontinuation				Recommendable replacement	
Model NPN Output		FZ4-700	FZ4-700-10	FZ4-H700	FZ4-H700-10	FZ5-600	FZ5-600-10
wodei	PNP Output	FZ4-705	FZ4-705-10	FZ4-H705	FZ4-H705-10	FZ5-605	FZ5-605-10
Control	ler type	Controllers integrated with LCD					
High-gr items	ade Processing	No	No	Yes	Yes	No	No
No. of C	ameras	2	4	2	4	2	4
Connec	ted Camera		nected to all can necting 5 millio		as, up to two can	neras can be	connected.)
No. of s	cenes	32					
Operati	on	Touch pen, mouse, etc.					
Settings	S	Create serie	es of processin	g steps by edit	ting the flowchar	t (Help messa	ges provided).

[Processing resolution]

	Product discontinuation	Recomn	nendable replacement
Item	FZ4-7[][] FZ4-7[][]-10 FZ5-60[] FZ4-H7[][] FZ4-H7[][]-10		FH-1050 FH-1050-10
When connected to a intelligent compact camera	752 (H) × 480 (V)		752 (H) × 480 (V)
When connected to a 300,000-pixel camera	640 (H) × 480 (V)		640 (H) × 480 (V)
When connected to a 2 million-pixel camera	1600 (H) × 1200 (V)		FZ-S: 1600 (H) × 1200 (V) FH-S: 2040 (H) × 1088 (V)
When connected to a 4 million-pixel camera	-		2040 (H) × 2048 (V)
When connected to a 5 million-pixel camera	2448 (H) × 2044 (V)		2448 (H) × 2044 (V)

[Number of logged images *1]

			Product discontinuation		nendable cement
Item			FZ4-7[][] FZ4-7[][]-10 FZ4-H7[][] FZ4-H7[][]-10	FZ5-60[] FZ5-60[]-10	FH-1050 FH-1050-10
When	Connected to 1 camer	ra	214	•	232
connected	Connected to 2 camer	ras	107	,	116
to a intelligent compact camera	Connected to 3 camer	ras	71		77
	Connected to 4 camer	ras	53		58
	Connected to	Color	250		270
	1 camera	Monochrome	252		272
When	Connected to	Color	125		135
connected to a 300,000	2 cameras	Monochrome	126		136
-pixel	Connected to	Color	83		90
camera	3 cameras	Monochrome	84		90
ouoru	Connected to	Color	62		67
	4 cameras	Monochrome	63		68
	Connected to	Color	40		43
When connected to a 2 million -pixel camera (FZ-S)	1 camera	Monochrome	40		43
	Connected to	Color	20		21
	2 cameras	Monochrome	20		21
	Connected to	Color	13		14
	3 cameras	Monochrome	13		14
	Connected to	Color	10		10
	4 cameras	Monochrome	10		10
	Connected to	Color/	_		37
When	1 camera	Monochrome	-		
connected to a 2 million	Connected to 2 Cameras	Color/ Monochrome			18
-pixel	Connected to	Color/	-		
camera	3 cameras	Monochrome	-		12
(FH-S)	Connected to	Color/			_
	4 cameras	Monochrome	-		9
When	Connected to 1 camera	Color/ Monochrome	-		20
connected to a 4 million	Connected to 2 cameras	Color/ Monochrome	-		10
-pixel camera	Connected to 3 cameras	Color/ Monochrome	-		6
(FH-S)	Connected to 4 cameras	Color/ Monochrome	-		5
	Connected to	Color	11		16
When	1 camera	Monochrome	11		16
connected	Connected to	Color	5		8
to a 5 million	2 cameras	Monochrome	5		8
-pixel	Connected to	Color	-		5
camera	3 cameras	Monochrome	-		5
(FZ-S)	Connected to	Color	-		4
	4 cameras	Monochrome	-		4

^{*1.} The image logging capacity changes when multiple cameras of different types are connected at the same time.

[Ratings] Box type

Item		Product disc	continuation	Recommendable replacement		
		FZ4-75[] FZ4-H75[]	FZ4-75[]-10 FZ4-H75[]-10	FH-1050	FH-1050-10	
Power supply voltage		20.4 to 26.4 VD	20.4 to 26.4 VDC			
	When connected to a intelligent compact camera	5.0 A max.	7.5 A max.	4.7 A max	6.5 A max.	
Current	When connected to a intelligent or autofocus camera	J.O A Max.	7.5 A max.	4.7 A max.		
consumption (at 24.0 VDC)	When connected to a 300,000-pixel camera				4.3 A max.	
*1	When connected to a 2 million-pixel camera	3.7 A max.	4.9 A max.	3.6 A max.		
	When connected to a 4 million-pixel camera	o.r max.				
	When connected to a 5 million-pixel camera					
Weight		Approx. 1.8 kg	Approx. 1.9 kg	Approx. 3.2 kg	Approx. 3.4 kg	
Accessories		Instruction Manual		User manual, Instruction Installation Manual, Power supply terminal, block connector, Ferrite core		

Controllers integrated with LCD

		Product disc	continuation	Recommendable replacemen	
Item		FZ4-70[] FZ4-H70[]	FZ4-70[]-10 FZ4-H70[]-10	FZ5-60[]	FZ5-60[]-10
Power supply	voltage	20.4 to 26.4 VD	C		
	When connected to a intelligent compact camera	5.0 A max.	7.5 A max.	5.0 A max.	7.5 A max.
Current consumption (at 24.0 VDC) *1	When connected to a intelligent or autofocus camera	J.U A IIIAA.	7.5 A max.	o.o max.	
	When connected to a 300,000-pixel camera		4.9 A max.	3.7 A max.	4.9 A max.
	When connected to a 2 million-pixel camera	3.7 A max.			
	When connected to a 5 million-pixel camera				
Weight		Approx. 3.2 kg	Approx. 3.4 kg	Approx. 3.2 kg	Approx. 3.4 kg
Accessories		Touch pen (one, inside the front panel) Instruction Manual, 6 mounting brackets			

^{*1.} The current consumption when the maximum number of cameras supported by each controller are connected. If a strobe controller model is connected to a lamp, the current consumption is as high as when an intelligent camera is connected.

[Operation Environment]

Coperation Environmen	<u></u>				
	Product discontinuation Re		Recommendable replacement		
Item	FZ4-7[][] FZ4-7[][]-10 FZ4-H7[][] FZ4-H7[][]-10	FZ5-60[] FZ5-60[]-10	FH-1050 FH-1050-10		
Ambient temperature range	Operating: 0 to 45°C for low cooling fan speeds, 0 to 50°C for high cooling fan speeds Storage: -20 to 65°C (with no icing or condensation)		Operating: 0 to 50°C Storage: -20 to 65°C (with no icing or condensation)		
Ambient humidity range	Operating and storage: 35% to 85% (with no condensation)				

[External interface]

External interfa					
	Product discontinuation		Recommendable replacement		
ltem	FZ4-7[][] FZ4-7[][]-10 FZ4-H7[][] FZ4-H7[][]-10	FZ5-60[] FZ5-60[]-10	FH-1050 FH-1050-10		
Serial communications	RS-232C/422A: 1CH		RS-232C 1CH		
EtherNet communications	Ethernet 100BASE-T.	X/10BASE-T	No-protocol (TCP/UDP) 1000BASE-T FH-1050 : 1 port FH-1050-10 : 2 port		
EtherNet/IP communications	No		Ethernet port baud rate: 1 Gbps (1000BASE-T)		
EtherCAT communications	No		EtherCAT protocol (100BASE-TX)		
Parallel I/O	13 inputs (RESET, STEP0/ENCTRIG_Z0, DSA0, ENCTRIG_A0, ENCTRIG_B0, DI0 to 7) 26 outputs (RUN, BUSY0, GATE0,OR0, READY0, ERROR, STGOUT0 to 3, DO0 to 15) * STGOUT 2 to 3 only for camera 4 ch type		< In the 2-line random trigger mode > 17 inputs (STEP0/ENCTRIG_Z0,STEP1/ENCTRIG_Z1, ENCTRIG_A0 to 1, ENCTRIG_B0 to 1, DSA0 to 1, DI0 to 7, DI_LINE0) 37 outputs (RUN0 to 1, READY0 to 1, BUSY0 to 1, OR0 to 1, ERROR0 to 1, GATE0 to 1, STGOUT0/SHTOUT0, STGOUT1/SHTOUT1, STGOUT2 to 7, DO0 to 15, ACK) < In the 5-line to 8-line random trigger mode > 19 inputs (STEP0 to 7, DI_LINE0 to 2, DI0 to 7) 34 outputs (READY0 to 7, BUSY0 to 7, OR0 to 7, ACK, ERROR, STGOUT/SHTOUT0 to 7)		
Encoder interface	No		RS422-A line driver level. Phase A/B: single-phase 4 MHz (multiplying phase difference of 1 MHz by 4 times), Phase Z: 1 MHz		
Monitor interface	Controllers integrated Integrated Controlle 12.1 inch TFT color (Resolution: XGA 1 Box-type controllers: Analog RGB video (Resolution: XGA 1	er and LCD r LCD I,024 × 768 dots) output, 1 channel	DVI-I output IF × 1ch		
USB interface	4 channels (supports	USB 1.1 and 2.0)	4 channels (supports USB 1.1 and 2.0)		
SD card interface	No		SDHC card of Class4 or higher rating is recommended.		

[Processing Items]

Processing It		Product dis	Recommendable	
	Item		FZ4-H7[][]-[][]	replacement FZ5-60[]-[][] FH-1050-[][]
	Search	Yes	Yes	Yes
	Flexible Search	Yes	Yes	Yes
	Sensitive Search	Yes	Yes	Yes
	ECM Search	Yes	Yes	Yes
	EC Circle Search	Yes	Yes	Yes
	Shape Search+	No	Yes	No
	Shape Search II	Yes	Yes	Yes
	Shape Search III	No	No	Yes
	EC Corner	No	No	Yes
	EC Cross	No	No	Yes
	Classification	Yes	Yes	Yes
	Edge Position	Yes	Yes	Yes
	Edge Pitch	Yes	Yes	Yes
	Scan Edge Position	Yes	Yes	Yes
	Scan Edge Width	Yes	Yes	Yes
	Circular Scan Edge Position	Yes	Yes	Yes
Inspections /	Circular Scan Edge Width	Yes	Yes	Yes
Measurement	Intersection	No	No	Yes
	Color Data	Yes	Yes	Yes
	Gravity and Area	Yes	Yes	Yes
	Labeling	Yes	Yes	Yes
	Label Data	Yes	Yes	Yes
	Labeling+	No	Yes	No
	Defect	Yes	Yes	Yes
	Precise Defect	Yes	Yes	Yes
	Fine Matching	Yes	Yes	Yes
	Character Inspection	Yes	Yes	Yes
	Date Verification	Yes	Yes	Yes
	Model Dictionary	Yes	Yes	Yes
	Barcode+ *1	No	Yes	Yes
	2DCode *2	Yes	Yes	Yes
	2DCode+ *2	No	Yes	No
	Circle Angle	Yes	Yes	Yes
	Glue Bead Inspection	No	No	Yes
	Camera Image Input	Yes	Yes	Yes
	Camera Image Input FH	No	No	Yes
lmage	Camera Image Input HDR	Yes	Yes	Yes
Capturing	Camera Image Input HDR Lite	Yes	Yes	Yes
	Camera Switching	Yes	Yes	Yes
	Measurement Image Switching	Yes	Yes	Yes

^{*1.} Bar Codes that can be read : JAN/EAN/UPC (including add-on codes),Code 39, Codabar (NW-7), ITF (Interleaved 2 of 5), Code 93, Code 128, GS1-128, GS1 DataBar (RSS-14 / RSS Limited / RSS Expanded), Pharmacode

^{*2. 2}D Codes that can be read : Data Matrix (ECC200), QR Code

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L		Product dis	continuation	Recommendable	
	Item Position Compensation		FZ4-H7[][]-[][]	replacement FZ5-60[]-[][] FH-1050-[][]	
	Position Compensation	Yes	Yes	Yes	
	Trapezoidal Correction	No	Yes	Yes	
	Filtering	Yes	Yes	Yes	
	Background Suppression	Yes	Yes	Yes	
	Brightness Correct Filter	Yes	Yes	Yes	
	Color Gray Filter	Yes	Yes	Yes	
	Extract Color Filter	Yes	Yes	Yes	
Correcting	Anti Color Shading	Yes	Yes	Yes	
images	Stripes Removal Filter+	No	Yes	No	
	Stripes Removal Filter II	Yes	Yes	Yes	
	Halation Cut+	No	Yes	No	
	Panorama+	No	Yes	Yes	
	Polar Transformation	Yes	Yes	Yes	
	Machine Simulator	No	No	Yes	
	Image Subtraction	No	No	Yes	
	Advanced filter	No	No	Yes	
	Macro	No	No	Yes	
	Macro Calculation	No	No	Yes	
	Calculation	Yes	Yes	Yes	
	Line Regression	Yes	Yes	Yes	
	Circle Regression	Yes	Yes	Yes	
	Calibration+	No	Yes	No	
	Precise Calibration	Yes	Yes	Yes	
	User Data	Yes	Yes	Yes	
	Set Unit Data	Yes	Yes	Yes	
	Get Unit Data	Yes	Yes	Yes	
	Set Unit Figure	Yes	Yes	Yes	
	Get Unit Figure	Yes	Yes	Yes	
Assisting	Trend Monitor	Yes	Yes	Yes	
inspections /	Image Logging	Yes	Yes	Yes	
measurement	Image Conversion Logging	Yes	Yes	Yes	
	Data Logging	Yes	Yes	Yes	
	Elapsed Time	Yes	Yes	Yes	
	Wait	Yes	Yes	Yes	
	Focus	Yes	Yes	Yes	
	Iris	Yes	Yes	Yes	
	Parallelize	No	No	Yes	
	Parallelize Task	No	No	Yes	
	Statistics	No	No	Yes	
	Reference Calib Data	No	No	Yes	
	Position Data Calculation	No	No	Yes	
	Stage Data	No	No	Yes	
	Robot Data	No	No	Yes	

OMRON

Item		Product discontinuation		Recommendable
		FZ4-7[][]-[][]	FZ4-H7[][]-[][]	replacement FZ5-60[]-[][] FH-1050-[][]
Assisting inspections / measurement	Vision Master Calibration	No	No	Yes
	PLC Master Calibration	No	No	Yes
	Convert Position Data	No	No	Yes
	Movement Single Position	No	No	Yes
	Movement Multi Points	No	No	Yes
	Detection Point	No	No	Yes
	Camera Calibration	No	No	Yes
	Data Save	No	No	Yes
Branching processing	Conditional Branch	Yes	Yes	Yes
	End	Yes	Yes	Yes
	DI Branch	Yes	Yes	Yes
	Control Flow Normal	No	No	Yes
	Control Flow PLC Link	No	No	Yes
	Control Flow Parallel	No	No	Yes
	Control Flow Fieldbus	No	No	Yes
	Selective Branch	No	No	Yes
Outputting results	Data Output	Yes	Yes	Yes
	Parallel Data Output	Yes	Yes	Yes
	Parallel Judgment Output	Yes	Yes	Yes
	Fieldbus Data Output	Yes	Yes	Yes
Displaying results on the monitor	Result Display	Yes	Yes	Yes
	Display Image File	Yes	Yes	Yes
	Display Last NG Image	Yes	Yes	Yes

Specifications and prices in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.